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ENTERED

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/903,325A

DATE: 03/13/2002 TIME: 11:17:12

Input Set : A:\510015-257.TXT

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4 <110> APPLICANT: De Robertis, Edward M.
              Bouwmeester, Tewis
      8 < 120 >  TITLE OF INVENTION: Endoderm, Cardiac and Neural Inducing
              Factors
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     13 <140> CURRENT APPLICATION NUMBER: US 09/903,325A
C--> 14 <141> CURRENT FILING DATE: 2001-11-07
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        Ser Leu Asn Ser Arg Gly Tyr Phe Arg Lys Glu Arg Gly Ala Arg Arg
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        Ser Lys Ile Leu Leu Val Asn Thr Lys Gly Leu Asp Glu Pro His Ile
    35
    36
                                55
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       Gly His Gly Asp Phe Gly Leu Val Ala Glu Leu Phe Asp Ser Thr Arg
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        Thr His Thr Asn Arg Lys Glu Pro Asp Met Asn Lys Val Lys Leu Phe
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       Ser Thr Val Ala His Gly Asn Lys Ser Ala Arg Arg Lys Ala Tyr Asn
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        Gly Ser Arg Arg Asn Ile Phe Ser Arg Arg Ser Phe Asp Lys Arg Asn
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        Thr Glu Val Thr Glu Lys Pro Gly Ala Lys Met Phe Trp Asn Asn Phe
    45
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       Leu Val Lys Met Asn Gly Ala Pro Gln Asn Thr Ser His Gly Ser Lys
    47
    48
                            150
                                                155
       Ala Gln Glu Ile Met Lys Glu Ala Cys Lys Thr Leu Pro Phe Thr Gln
   49
   50
                        165
                                            170
       Asn Ile Val His Glu Asn Cys Asp Arg Met Val Ile Gln Asn Asn Leu
   51
   52
                                        185
       Cys Phe Gly Lys Cys Ile Ser Leu His Val Pro Asn Gln Gln Asp Arg
   53
   54
               195
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       Arg Asn Thr Cys Ser His Cys Leu Pro Ser Lys Phe Thr Leu Asn His
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          210
                             215
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     Leu Thr Leu Asn Cys Thr Gly Ser Lys Asn Val Val Lys Val Val Met
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  58
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                                             235
     Met Val Glu Glu Cys Thr Cys Glu Ala His Lys Ser Asn Phe His Gln
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                                                                            60
     120
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    ttgggcatgg tgattttcgc ttagtagctg aactatttga ttccaccaga acacatacaa
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     ttgataaaag aaatacagag gttactgaaa agcctggtgc caagatgttc tggaacaatt
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                                                                          480
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                                                                          540
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                                                                          600
 80
    atcagcaaga tcgacgaaat acttgttccc attgcttgcc gtccaaattt accctgaacc
                                                                          660
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    acctgacgct gaattgtact ggatctaaga atgtagtaaa ggttgtcatg atggtagagg
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    aatgcacgtg tgaagctcat aagagcaact tccaccaaac tgcacagttt aacatggata
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    catctactac cctgcaccat taaaggactg ccatacagta tggaaatgcc cttttgttgg
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                                                                         1140
    tggtcacctg tttaaaagca aacatcttat tggttgctat gggttactgc ttctgggcaa
                                                                         1200
91
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103
    Pro Val Arg Ile Pro Met Cys Lys Ser Met Pro Trp Asn Met Thr Lys
104
105
                                40
    Met Pro Asn His Leu His His Ser Thr Gln Ala Asn Ala Ile Leu Ala
106
107
                            55
    Ile Glu Gln Phe Glu Gly Leu Leu Thr Thr Glu Cys Ser Gln Asp Leu
108
```

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								•	-	,		~ \I 3	03323	A.ra	w			
	109						70											
	110	Leu	Phe	Phe	. Τ.Δι	1 (770	/U 		_			75					80 P Phe	
	111				. 1100	L Cys	ATG	мет	c TA1	r Ala	a Pro	\circ Ile	e Cys	Thr	: Ile	A A S	n Dha	
	112	Gln	uic	C1	_	85					90		-			05	Prine	
	113	GIII	птэ	GIU	Pro) Ile	Lys	Pro	Cys	Lys	s Sei	r Val	Cvs	Glu	7 70		a Arg	
					100)				105	5		. 0,0	GIU	ALG	AT	a Arg	
	114	АТа	Gly	Cys	Glu	Pro	Ile	Leu	ı Ile	T. 77 6	- 2 (1772)	~ A ~ ~			110		o Glu	
	115			115					120	י ביער	2 I A I	Arg	Hls	Thr	Trp	Pro	Glu	
	116	Ser	Leu	Ala	Cvs	Glu	Glu	Τ	T20					125			: Ile	
	117		130	_	-12	OLU	GIU	125	Pro	val	. Tyr	` Asp	Arg	Gly	Val	Cvs	Tle	
	118	Ser	Pro	Glu	λ l -	T1 .		135					140	_		- 1 -		
	119	145	-10	GIU	ATG	TTE	Val	Thr	Val	Glu	Gln	Gly	Thr	Asp	Sor	Mo+	Pro	
	120	747	D1	_			150					155			DEL	met	. Pro	
		ASP	Pue	Ser	Met	Asp 165	${\tt Ser}$	Asn	Asn	Glv	Asn	Cve	C1	G	~ 1		160	
	121					165				1	170	Cys	GTĀ	ser	GLY	Arg	Glu	
	122	His	Cys	Lys	Cys	Lys	Pro	Met	Laze	λ Ι	T/0					175		
	123			-	180	_1 -		1100	пуѕ	Ala	Thr	GIn	Lys	Thr	Tyr	Leu	Lvs	
	124	Asn	Asn	Tvr	Δan	Ttzx	37 - 7	-1	_	185					190		1-	
	125			105	non	Tyr	Val	тте	Arg	Ala	Lys	Val	Lys	Glu	Va 1	T.v.c	Val	
	126	Luc	Crra	133	_				200				-	205		LIYS	Val	
	127	цуз	Cys .	HIS	Asp	Ala	${ t Thr}$	Ala	Ile	Val	Glu	Va 1	Lve	Clu	T1 -		_	
		~	210					215				. 41	220	GIU	тте	ьeu	Lys	
	128	Ser .	Ser]	Leu	Val	Asn	Ile	Pro	Lvs	Δen	Thr	37-1	220	_				
	129	225				Asn	230			мър	T 11T	val	Thr	Leu	${ t Tyr}$	Thr	Asn	
	130	Ser (Gly (Cys	Leu	Cvs	Dro (Cln	Т	•• •		235					240	
	131	Ser (_	-		2/5	. 10	GIII	Leu	va⊥	Ala	Asn	Glu (Glu	Tyr	Ile	Ile	
	132	Met.	alv u	מזיי (~1.,	24J 7am 1					250				-	255		
	133	Met (J-Y 1	· ĀT	oro	ASP 1	Jys (Glu .	Arg	Thr	Arg	Leu :	Leu 1	Leu '	Val.	233	C1	
	134	Cor t		7 4	200					265				u	270	JIU	GIA	
	135	Ser I	Jeu A	та (ilu 1	Lys 1	rp /	Arg A	Asp .	Ara	Len	Ala i	Luc I		2/0	_		
		_	2	75					280	_		·····	nys i	JOE JĀR ,	vaı .	Lys	Arg	
	136	Trp A	sp G	ln I	ys I	Leu A	rg A	ra I	Pro i	Ara .	T 120	n		285				•
	137	2	90				2	95		119	Lys,	ser i	Lys A	Asp I	oro v	/al /	Ala	
	138	Pro I 305	le P	ro A	sn I	vs A	en c		٠ (- .	_		300					
	139	305				ים כני	10	er F	asn s	ser A	Arg (Gln A	Ala A	rg S	Ser			
	141 <	210>	SEO	א מד	O · 1	,	10				3	315						
	142 <	211>	LENC	TU.	1075	:												
	143 <	212	TVDE	. D.	T0/3	•												
	1//	212	1155	: DN	A													
	144 <	413 <i>></i> (JRGAI	NISM	: Xe	nopu:	s fr	azzl	ed									
	T-10 /	4 U U > 3	2 ლტი F	SNCE	: 4													
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	148	tgttga ctaatt	atttt	gad	caca	tgat	t.αai	ttac	+++	agg	-yaai	99 L	tage	ccta	t gg	attt	ggtt	60
	149 (ctaatt	ctac	: act	+++:	a = = +	+ 5 + 2	- د د		cugu	cayy	at t	yaag	gact [.]	t gg	attt	ttat	120
	$150 \circ$	ctaatt gataaa tgctt	ictta	ant	CC+	taat	+++	- Lya	yta .	attg	ttca	tt ti	tgtai	ttgga	a to	qqac	taaa	180
	151 t	tactt	ttac	2+0	+~~	cycl		jacti	tgc (ccat	aaac	ta ta	aaggt	agag	a taa	aatt	atea	
	152 a	tgctt cacat	anar	aly	Lyce	cag	attt	tcc	ctg 1	tatt	ccct	gt at	ttccc	tota	יבה ו		geag	240
	153 t	cacat actgg	acag	ytt	gggd	caga	ataa	caat	tgt d	ctcg	aacaa	ag as	taaat	uua	. ua	j Ladi	ycct	300
	154 a	actgg gcctg	.ccat	acc	tgga	actg	gcgc	ttct	ct t	tatta	adde	יכ כ		-yyac	- LC	. ca	ctgc	360
	∔24 a	gcctg tctcc	tgcg	gat	CCCC	catg	tgca	aato	ta t	acce	ataa.	- u u	1	cegt	- gct	tcg	tgtg	420
	155 a	tctcc gacca	acca	cag	cact	caa	qcca	ator	ירה +	- 5 - 5 - 6	~ - y y c	a Ca	ıcyac	caag	rato	CCC	aacc	480
	roe f	gacca	ctga	atα	tago	cad	~ ~ ~ ~			۔ ت	gycac	ıı Ly	aaca	gttt	gaa	gatt	ttac	540
	15/ g	tacca [.]	tcga	t.t.t.	രവ	roat .	~~~				-ccg	-y cg	ccat	gtat	gcc	CCCa	attt	600
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	9	tgaaga	-ycc	god	ey ca	cat o	gaca	gagg	ag t	ctgc	atct	.c cc	Caga	+ממח	~yc	~=~	cal	720
										-	-		y u	₃ 9 C C	ulc	yıca	cag	780

DATE: 03/13/2002 PATENT APPLICATION: US/09/903,325A TIME: 11:17:12

Input Set : A:\510015-257.TXT

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204	Gly Th	Arg	Ile	Pro	Leu	Glu	Ile	Ala	Ile	Asp	Glu.	Asp	Val	Glv	Ser	
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207				T02					170					175		
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209			100					T82					190			
210	Met Arg	Glu	Leu	Asp	Arg	Glu	Ile	Gln	Pro	Thr	Tvr	Ile	Met	Glu	Leu	
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21				19						20) n ·							_			
21	2 L	eu	Ala	Me	t As	sp G	lv G	1 v	Va i	I Dr	, o		T -		_	_	20	5			
21	3		210			-r -	-1 0	- 1	215	- PI	.0 5	er	ье	u Se	er G	ly	Th	r A	la	Va:	l Val
21																					
21	5 2	25			9 10	T 11	eu A	sp an	Pne	AS	n A	sp	Ası	n Se	er P	ro	Va.	1 P.	he	Glu	ı Arg
21																					
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213	о т	eu i	-eu	GΙι	ı Le	u Hi	s A	la '	Thr	As	рA	sp	Asr	G1	u G	1 v	Va '	ìλa	an (71	Glu
219																					
220) I.	le v	/al	Tyr	Gl:	y Ph	ie Se	er :	rhr	Le	u A	la	Ser	· 61	n C	1	3 <i>7</i> - 7	2,	70		Leu
223																					
222	2 Pł	ne I	уs	Ile	As	n Se	r Aı	^מד י ^י	l'hr	G1 ₂	v v C.	~ ~	37- 1	m1	_		285)			Val
223	3	2	90					. 9 .	295	G1.	у 56	=1.	val	Tn	r Le	eu	Glu	ι G1	.у С	ln	Val
224	l As	g q	he	Glu	Th	r T.u	a C1	n 1	16	_					3(0					
225	3.0)5		<u>u</u>		т шу	2 21	.11 .	. III.	туј	r GJ	Lu	Phe	Gl	u Va	ıl (Gln	Al	a c	ln	Asp
226																					
227	, 110	u	ту	PIO	AS	n Pr	о ге	u I	'hr	Ala	1 Th	ır	Cys	Ly:	s Va	1 :	Fhr	٧a	1 H	is	320 Ile
228																					
	ь	u A	sp	vaı	Ası	n As	p As	n T	hr	Pro	Al	.a	Ile	Thi	r Il	e T	rhr	Dr	n T	011	Thr
229																					
230	Th	r V	al i	Asn	Ala	a Gl	y Va	l A	la	Tyr	· Il	e	Pro	Gli	i ጥb	r 7	112	m h	· ·		
231																					
232	As	n P	he :	Ile	Ala	Lei	ı Il	e s	er	Thr	Th	r	λan	7			865				
233																					
234	Gl	у G.	ln v	Val	Aro	Суз	Th:	r I.	7 <i>J</i>	m	0 1	•			38	0					
235	38	5			5	971	390	י די	cu	TAT	GI	У	HlS	GLu	Hi:	s P	he	Lys	s Le	eu	Gln
236																					
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242	Asp) G1	u A	sn	Asp	Asn	Ala	Pr	° 0	Val	Phe	S	er	T.vc	Dro	. ت.	תו די	m			
243		45	0					45	5			_	-	Lys	460	. G.	LII	ıyı	GT	u A	Ala
244	Ser	. Il	еL	eu	Glu	Asn	Asn	Αl	a i	Pro	Glv	, 9	or '	Ttrx	# 0 0			1		_	
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246	Ala	Ar	g A	sp :	Ser	Asp	Ser	Δς	n (21 n	λαη	C	7 7	475						4	180
247			_	-		485		210	Ρ (3 T II	ASII	. G.	т	Lys	Val	As	n '	Tyr	Ar	g I	Leu
248																					
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VERIFICATION SUMMARY

PATENT APPLICATION: US/09/903,325A

DATE: 03/13/2002

TIME: 11:17:13

Input Set : A:\510015-257.TXT

Output Set: N:\CRF3\03132002\1903325A.raw

L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date